

IN THE CLAIMS

1. (previously presented) A recording and reproducing apparatus comprising:

reproducing means for reproducing main data and first management data for managing said main data that are recorded in a first recording medium,

a reproduction order changing means for changing a reproduction order of tracks of the main data reproduced from the first recording medium to be different than a reproduction order of tracks recorded as said first management data,

recording and reproducing means for recording in and reproducing from a second recording medium the main data reproduced from said first recording medium and second management data for managing said main data to be recorded in said second record medium,

end detection means for detecting an end of each track of the main data reproduced by said reproducing means,

complete reproducing detection means for detecting that each track has been reproduced completely,

management data renewal means for renewing the second management data to be recorded in said second recording medium based on detection results from said end detection means and said complete reproducing detection means, whereby even though the main data recorded in said first recording medium is reproduced in the reproduction order different than the reproduction order of tracks recorded as said first management data by said reproduction order changing means, said second management data is renewed by said management data renewal means based on the reproduction order of tracks recorded as said first management data, and

control means for controlling recording of the main data reproduced from said first recording medium into said second recording medium based on said second management data and

for controlling said management data renewal means so as to renew said second management data when said main data recorded in said second recording medium.

2. (canceled)

3. (canceled)

4. (previously presented) The recording and reproducing apparatus according to claim 1, wherein

said reproduction order changing means decides the reproduction order of the main data from said first recording medium based on an input from operation means operated by a user.

5. (previously presented) A recording and reproducing apparatus according to claim 1, further comprising

random number generator means for generating random numbers, wherein said reproduction order changing means decides the reproduction order of the main data recorded in said first recording medium based on random numbers generated by said random number generator means.

6. (previously presented) A recording and reproducing apparatus according to claim 1, wherein

when it is estimated based on said second management data that main data which has already been recorded in said second recording medium is being reproduced from said first recording medium, recording of said main data being reproduced into said second recording medium is restricted.

7. (previously presented) The recording and reproducing apparatus according to claim 1, wherein

when it is estimated that main data reproduced from said first recording medium is not yet recorded in said second recording medium, said control means controls said [[]] management data renewal means so as to renew said second management data based on management data that is reproduced from said first recording medium.

8. (previously presented) A recording and reproducing apparatus according to claim 1, further comprising

divider means for dividing the main data recorded in the second recording medium based on an end detection signal of each track of the main data from said end detection means for recording.

9. (previously presented) A recording and reproducing method for a recording and reproducing apparatus including reproducing means for reproducing main data and first management data for managing said main data that are recorded in a first recording medium, for recording in a second recording medium and reproducing from the second recording medium the main data reproduced from said first recording medium and second management data for managing said main data to be recorded in said second recording medium, and control means for controlling recording or reproduction of said main data based on said second management data, the recording and reproducing method comprising the steps of:

changing a reproduction order of tracks of the main data reproduced from said first recording medium to be different from then a reproduction order of tracks as said first management data,

detecting an end of each track of the main data reproduced by said reproducing means,

detecting that each track has been reproduced completely,

renewing the second management data, to be recorded in said second recording medium based on detected results of said end detecting step and said complete reproducing detecting step, wherein even though the main data recorded in said first recording medium is reproduced in the reproduction order different than that of tracks recorded in said first recording medium, said second management data is renewed based on the reproduction order of tracks recorded as said first management data, and

controlling recording the main data reproduced from said first recording medium in said second recording medium based on said second management data, and controlling said management data when said main data is recorded in said second recording medium.

10. (canceled)

11. (canceled)

12. (previously presented) The recording and reproducing method according to claim 9, wherein

the reproduction order of the main data from said first recording medium is determined based on an input from operation means operated by a user in said reproduction order changing step.

13. (previously presented) The recording and reproducing method according to claim 9, further comprising

a random number of generating step of generating random numbers, wherein the reproduction order of the main data recorded in said first recording medium is determined in said

reproduction order changing step based on the random numbers generated in said random number generating step.

14. (previously presented) The recording and reproducing method according to claim 9, wherein

when it is estimated based on said second management data that main data which has already been recorded in said second recording medium is being reproduced from said first recording medium, recording said main data in said second recording medium is restrained in said step of controlling recording.

15. (previously presented) The recording and reproducing method according to claim 9, wherein

when it is estimated in said control step that main data reproduced from said first recording medium is not yet recorded in said second recording medium, said management data renewal step is controlled so as to renew said second management data based on management data that is reproduced from said first recording medium.

16. (previously presented) The recording and reproducing method according to claim 9, further comprising

a dividing step of dividing the main data to be recorded the second recording medium based on an end detection signal of each track of the main data from said end detecting step.

17. (previously presented) A recording and reproducing apparatus comprising:

a reproducing unit for reproducing main data and first management data for managing said main data that are recorded in a first recording medium,

a reproduction order changing unit for changing a reproduction order of tracks of the main data reproduced from the first recording medium to be different than a reproduction order of tracks recorded as said first management data,

a recording and reproducing unit for recording in and reproducing from a second recording medium the main data reproduced from said first recording medium and second management data for managing said main data to be recorded in said second record medium,

an end detection unit for detecting an end of each track of the main data reproduced by said reproducing unit,

a complete reproducing detection unit for detecting that each track has been reproduced completely,

a management data renewal unit for renewing the second management data to be recorded in said second recording medium based on detection results from said end detection unit and said complete reproducing detection unit, whereby even though the main data recorded in said first recording medium is reproduced in the reproduction order different than the reproduction order of tracks recorded as said first management data by said reproduction order changing unit, said second management data is renewed by said management data renewal unit, based on the reproduction order of tracks recorded as said first management data, and

a controller for controlling recording of the main data reproduced from said first recording medium into said second recording medium based on said second management data and for controlling said management data renewal unit so as to renew said second management data when said main data recorded in said second recording medium.

18. (previously presented) The recording and reproducing apparatus according to claim 17, wherein

said reproduction order changing unit decides the reproduction order of the main data from said first recording medium based on an input from an operation unit operated by a user.

19. (previously presented) The recording and reproducing apparatus according to claim 17, further comprising:

a random number generator unit for generating random numbers, wherein said reproduction order changing unit decides the reproduction order of the main data recorded in said first recording medium based on random numbers generated by said random number generator unit.

20. (previously presented) The recording and reproducing apparatus according to claim 17, wherein

when it is estimated based on said second management data that main data which has already been recorded in said second recording medium is being reproduced from said first recording medium, recording of said main data being reproduced into said second recording medium is restricted.

21. (previously presented) The recording and reproducing apparatus according to claim 17, wherein

when it is estimated that main data reproduced from said first recording medium is not yet recorded in said second recording medium, said controller controls said management data renewal unit so as to renew said second management data based on management data that is reproduced from said first recording medium.

22. (previously presented) The recording and reproducing apparatus according to claim 17, further comprising

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a divider unit for dividing the main data recorded in the second recording medium based on an end detection signal of each track of the main data from said end detection unit for recording.

23-41. (canceled)